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By-Jakubauskas, Edward B.; Palomba, Neil A.

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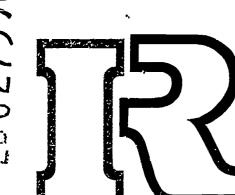
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Descriptors-Area Vocational Schools, Cooperative Planning, Curriculum Development, \*Educational Needs, Employment Opportunities, \*Manufacturing Industry, \*Occupational Surveys, Occupations, \*Post Secondary Education, Wages

Identifiers-Iowa

Job vacancies were reported to aid Iowa area vocational schools in developing curriculums and training program by determining: (1) occupations to be considered for training purposes in area vocational schools, (2) demand for workers in occupations under consideration by area schools, (3) oversupply in certain skills, and (4) an on-going procedure for immediate feedback of industry's most critical manpower shortages to educators. Response of 980 of 3,000 firms provided data which was analyzed by occupational group, industry classification, and county and multi-county areas. A total of 11,388 full-time vacancies were uncovered. Largest vacancies were in the benchwork occupations, processing occupations, and machine trades occupations. Results, using an inflation procedure, are presented in the appendixes under headings of: (1) number of job vacancies, by major and detailed occupations groups, Iowa and multi-county subareas, (2) number of job vacancies, by industry and major occupational group, Iowa, (3) number of job vacancies and average hourly wage rates offered, by detailed occupational group, 99 counties and (4) inflated job vacancies by major and detailed occupational groups and by industry group. Similar listings for earlier time periods are available as VT 003 596 and VT 005 639-40. (DM)







ECONOMICS PSYCHOLOGY SOCIOLOGY

# INDUSTRIAL RELATIONS CENTER

IOWA STATE UNIVERSITY - AMES, ICWA 50010

JOB VACANCIES IN IOWA MANUFACTURING ESTABLISHMENTS

as Reported for the Period

March 1968 through August 1968

Volume III, Number 1

/T00763

Research Graduate Education Community Service

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JOB VACANCIES IN IOWA MANUFACTURING ESTABLISHMENTS.

as Reported for the Period

(March 1968 through August 1968)

Volume III, Number 1,

This report was prepared by Edward B. Jakubauskas and Neil A. Palomba. Assistance of Mr. Ken Mericle is gratefully acknowledged.

August 1968

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# JOB VACANCIES IN IOWA MANUFACTURING ESTABLISHMENTS MARCH-AUGUST 1968

#### Chapter I. Purpose of Survey

Occupational Information Needs for Area Vocational Schools

This survey is the fourth in a series designed to provide a measure of the nature and extent of job vacancies in Iowa manufacturing establishments. However, unlike the previous surveys this study includes an attempt to estimate the type and extent of job vacancies in the Iowa manufacturing firms not answering the questionnaires, as well as reporting the vacancies of the Iowa firms answering the questionnaires. (See Chapter IV and Appendix Table IV of this study.)

One of the primary reasons for this job vacancy series was the development of Iowa's Area Vocational Schools and Community Colleges. To aid the Area Vocational Schools in developing curriculum and training programs this series attempts to provide occupational employment data at a low cost. This data will hopefully answer such questions as:

- (1) What specific occupations ought to be considered for training purposes in our Area Vocational Schools?
- (2) Is there a substantial demand for workers in occupations and skills under consideration by area schools for training purposes?



The state of the s

- (3) Is there likely to develop a glut on the labor market for certain skills while others continue to be in short supply?
- (4) In general, can an on-going procedure be developed for immediate "feedback" of industry's most critical manpower shortages to educators involved in developing curriculum and training programs?

#### Multi-Purpose Nature of the Job Vacancy Survey Series

It is anticipated that the job vacancy survey series will be of assistance to a wide range of organizations interested in manpower information for planning purposes.

Among these organizations are the Iowa State Manpower Development Council's On-The-Job Training Program, institutional training programs under the Manpower Development and Training Act, Vocational Rehabilitation, Employment Security, the Bureau of Labor, the Industrial Commission, and various educational institutions.

Furthermore, this series is intended to supplement longrun forecasts of manpower trends which are related to changes in technology, population distribution, and industrial structure.



Complete information on occupational employment data trends requires both types of approaches. Long-run forecasts, however, take time to develop and though valid for some future period, are subject to rapid short-run variations. Job vacancy data, though short-run in nature, has an advantage in providing an immediate and highly sensitive measure of employer skill requirement.

# Chapter II. Scope of Coverage Response Pate

The Job Vacancy Questionnaire was mailed to the approximately 3,000 manufacturing firms, employing four or more workers, listed with the Iowa Development Commission in Des Moines, Iowa. The questionnaire requested job vacancy and starting wage rate data for the six month period March through August 1968. Four weeks after the questionnaire was sent a second questionnaire was mailed to all manufacturing firms employing fifty or more employees which had not yet responded to the first questionnaire.

A completed questionnaire was received from 980 firms representing a response rate of about 33%. The resulting data has been analyzed by occupational groups, industry classification, county and multi-county areas.

#### Explanation of Classifications

In order to facilitate the utilization of this data, standard classifications were used as much as possible. Thus, the occupational groups used came from the <u>Dictionary of Occupational</u>



Titles (D.O.T.) while the industry groups came from the Standard Industrial Classification (S.I.C.) established by the U.S. Bureau of the Budget. 2

Table I in the Appendix contains each of the occupational groups for which job vacancies were reported in Iowa along with the appropriate D.O.T. number. Table II contains the industry groups in Iowa which reported job vacancies; however, since abbreviations were used in Table II the following table is provided with the abbreviated industry group name and its appropriate S.I.C. number.

Table I: Iowa Industry Groups by Standard Industrial Classification

S.I.C.		S.I.C.	
NUMBER	NAME	NUMBER	NAME
19 Ordnance 8	Acc.	31 Lead	ther & Rel.
20 Food & Rel	<b>.</b> •	32 Stor	ne, Clay & Glass
23 Apparel			mary Metal Industry
24 Lumber & V	<b>lood</b>		ricated Metal
25 Furniture	& Fixtures	35 Mach	ninery (Except Elec.)
26 Paper & Re	1.		c. Machinery
.27 Printing,	Publishing & Rel.		nsportation Equip.
28 Chemicals			trol Inst.; Photo Goods;
29 Petroleum	Refining & Rel.		∈ Inst.
30 Rubber & H	_	39 Misc	

<sup>1.</sup> U.S. Department of Labor, Bureau of Employment Security, <u>Dictionary</u> of Occupational Titles, Volumes I and II (Washington, D.C. 1965)



<sup>2.</sup> Executive Office of the President, Bureau of the Budget, Standard Industrial Classification Manual, (Washington, D.C. 1967).

In addition to the occupational groups, Appendix Table I represents job vacancy data by multi-county sub-areas. These sub-areas were obtained by combining the 99 Iowa counties into 16 groups. Map 1 shows Iowa with the 16 multi-county sub-areas designated. These sub-areas were created to coincide with the 16 Local Coordinating Committee Areas of the Iowa Employment Security Commission. Thus, it is possible to identify each of the 16 multi-county sub-areas with the name of the city which the Employment Security Commission uses to identify their coordinating areas. Examination of Map 2 (Iowa's Area Community Colleges and Area Vocational Schools) in conjunction with Map 1 will show the close geographical similarity between these Area Schools and the 16 Multi-co<sup>177</sup> sub-areas used to analyze the job vacancy data in this publication.

Finally, it should be noted that the wage data reported in Appendix Table III are average hourly wage data. So when a firm reported a monthly wage rate this was converted to an hourly wage rate by assuming a 40 hour week.

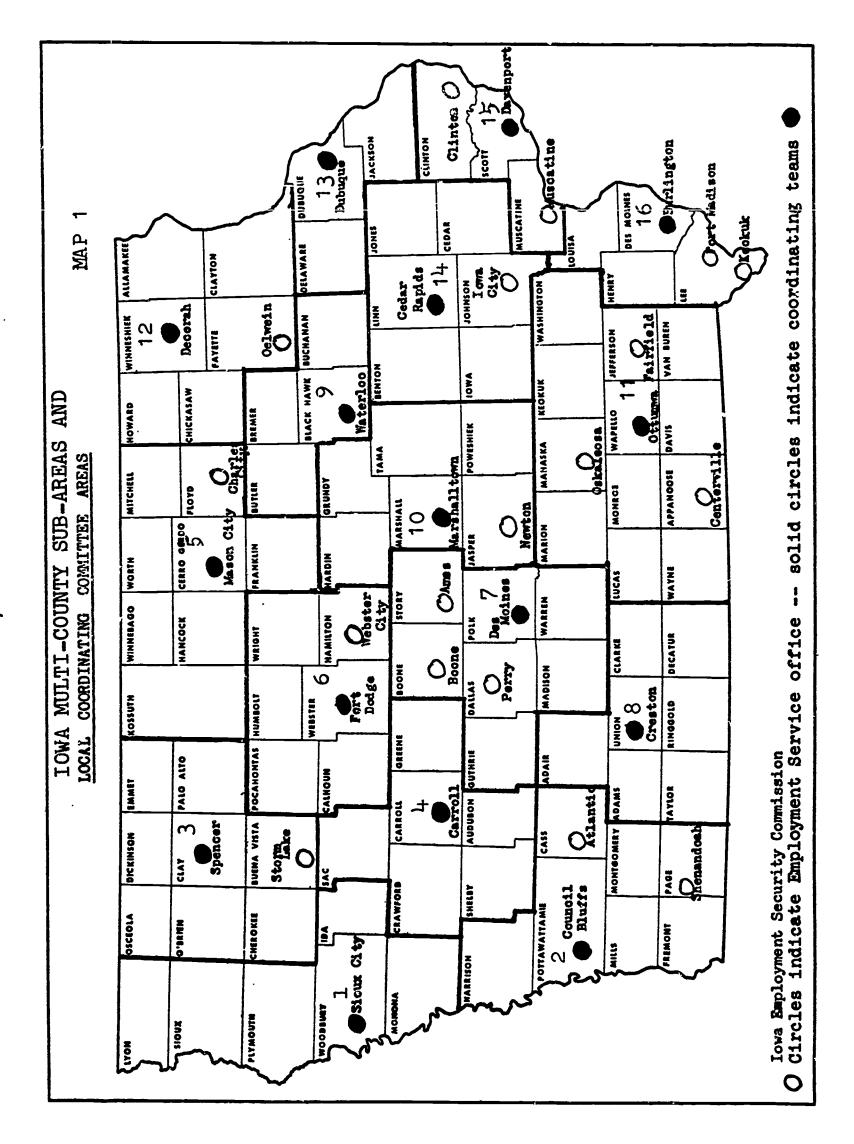
#### Coding Note

In the course of coding the occupation information uncovered by the job vacancy questionnaire some assumptions had to be made



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ADMINISTRATIVE CENTERS AND MERGED AREAS FOR

January 1, 1967

MAP 2.

AREA COMMUNITY COLLEGES (ACC) AND AREA VOCATIONAL SCHOOLS (AVS)

Administrative Center ACC × Calmar Cedar -##S N N N LACKA VII × Marshalltown ACC ACC s Moine WINNEBAGO MADISON Not currently approved Six. Unattached Counties Ft. Dodge Creston stherville ACC Council Bluffs OTTAWATTAMIE XIII Sioux City Sheld. IV AVS

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where little information was given by the answering firm. A list of the assumptions follows:

Vacancies marked as follows but	Assigned D.O.T.
not otherwise specified	Category
(l.) Clerical or office help	209
(2.) Machinist	600
(3.) Machine operators	609
(4.) Printing pressmen	651
(5.) Sewing machine operators	787
(6.) Welders	812
(7.) Electricians	824
(8.) Printers	973
(9.) Draftsmen	007

Chapter III.

An Overview: Structure of Job Vacancies in Iowa Manufacturing

Demand for Skilled Workers

This job vacancy survey of Iowa manufacturing firms uncovered 11,388 full-time vacancies for the March through August 1968 period. These vacancies range from electrical engineering to machinists to truck drivers.

As would be expected the Professional, Technical and Managerial Occupations have relatively few vacancies — 296 of the total vacancies, due to the fact that only manufacturing firms were interviewed. Some of the most active detailed occupational groups (three digit D.O.T. number) within the Professional, Technical and Managerial Occupations uncovered by this survey are mechanical engineering (with 138 vacancies), industrial engineering (22 vacancies), and chemistry (17 vacancies).

The largest number of vacancies are in the Bench Work Occupations. These occupations have 2,766 vacancies which range from the fabrication of ammunition, explosives and related occupations (761 vacancies); to metal unit assembly and adjusting occupations (484 vacancies); to nongarment sewing machine operators (364



<sup>1.</sup> The D.O.T. number for each of these occupational titles is given in Appendix Table I of this publication.

vacancies). Other high-vacancy occupations are fabrication and repair of miscellaneous plastics occupations (360 vacancies); filing, grinding, buffing, cleaning and polishing occupations (145 vacancies); assembly and repair of electrical equipment occupations (111 vacancies); and fabrication and repair of assorted materials occupations (99 vacancies).

The second largest number of unfilled jobs (2,569 vacancies) are in the Processing Occupations. Half of these vacancies are in the food and related processing occupations (1,296 vacancies). Other high-vacancy occupations are chemical and related processing occupations (418 vacancies); ore refining and foundry work occupations (174 vacancies); nonmetallic minerals processing occupations (167 vacancies); slaughtering, breaking and curing occupations (106 vacancies); and forming occupations (71 vacancies).

The Machine Trades Occupations have 2,327 unfilled jobs or the third largest number of job vacancies. These vacancies are concentrated in the metal machining occupations (1,354 vacancies); corrugating work occupations (316 vacancies); miscellaneous metalworking occupations (246 vacancies); turning occupations (179 vacancies); machinists and related occupations (144 vacancies); toolmakers and related occupations (89 vacancies); and metal forming occupations (63 vacancies).

The Structural Work Occupations have 1,492 vacancies with 663 of these vacancies in the large household appliances and commercial and industrial equipment occupations. The tinsmiths, coppersmiths and sheet metal occupations have 342 vacancies; while the combination arc and gas welders occupations have 220 vacancies. Other high-vacancy occupations are arc welders (85 vacancies); carpenters and related (69 vacancies); and miscellaneous construction work (29 vacancies).

The Miscellaneous Occupations have 964 vacancies. The high-vacancy occupations in this group are packaging occupations (280 vacancies); materials moving and storing occupations (190 vacancies); heavy truck drivers (182 vacancies); packaging and material handling occupations (172 vacancies); and concrete mixing truck drivers (84 vacancies).

### Industry and Geographical Profile

A close examination of Appendix Table II reveals the industry profile of Iowa manufacturing job vacancies reported in this survey. The Food and Related industry group has the largest number of job vacancies with 1,992 and these are concentrated in the Processing (1,497); Miscellaneous (273); and Clerical and Sales (67) Occupations.



The Machinery (Except Electrical), and the Ordnance and Accessories industry groups are the next two in number of vacancies. The former industry has 1,510 vacancies with half of them concentrated in the Machine Trades Occupations (789 vacancies); while the latter industry group has 1,452 vacancies concentrated heavily in the Bench Work Occupations (761 vacancies).

There are 1,382 unfilled jobs in the Electrical Machinery industry group, and 823 vacancies in the Fabricated Metal group. The vacancies of the former industry group are concentrated in the Structural Work (619) and Bench Work (326) Occupations. The Fabricated Metal's vacancies are concentrated in the Structural Work (345), Machine Trades (223), and Bench Work (201) Occupations.

The above-mentioned five industry groups (two-digit S.I.C. number) have 7,159 job vacancies, or about 63% of the total full-time vacancies reported by Iowa manufacturing firms for the March through August 1968 time period.

Turning to Appendix Table I a geographical profile of Iowa manufacturing job vacancies can be developed. For example, the metal machining occupations' vacancies are concentrated in subareas 16 (Burlington), 14 (Cedar Rapids), 10 (Marshalltown), and 9 (Waterloo).

The processing, food and related occupations' vacancies are concentrated in sub-areas 11 (Ottumwa), 13 (Dubuque), 15 (Davenport), 2 (Council Bluffs), and 12 (Decorah); while the large household appliances and commercial and industrial equipment occupations' vacancies are concentrated in sub-areas 1 (Sioux City) and 16 (Burlington).

The above can be repeated for other occupations.

#### Comparison With Previous Surveys

An examination of the results of the first three surveys and the results of this survey yields many occupations which had relatively high vacancies in <a href="every">every</a> study.

Examples from the Processing Occupations would include the ore refining and foundry work occupations; the processing, food and related occupations; the processing, chemical and related occupations; and the processing, nonmetallic minerals occupations. Examples from the Machine Trades Occupations would include the machinists and related occupations; the turning occupations; the miscellaneous metalworking occupations; and the corrugating occupations.

High-vacancy trends also seem to be emerging in the Bench Work Occupations among the metal unit assembly and adjusting



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occupations; the assembly and repair of electronic components occupations; and nongarment sewing machine operators. In the Structural Work Occupations the welding occupations, and the carpenters and related occupations had relatively high vacancies reported in all four surveys. Moreover, the same was true in the Miscellaneous Occupations for the truck driver occupations, and the materials moving and storing occupations.

#### Chapter IV. Inflation Procedure for Iowa Manufacturing Job Vacancies

#### Method

Everything reported in the first three chapters and the first three appendix tables is based upon the completed questionnaires returned by Iowa firms. However, given these reported vacancies what can be said about the firms that did not return questionnaires? In the next few pages (and in Appendix Table IV) we will discuss and apply an Inflation Procedure developed by the Minnesota Employment Service, St. Paul, Minnesota. This procedure enables us to estimate the job vacancies of the firms who did not respond to the questionnaire based upon the information supplied by the firms who did reply.

The Inflation Procedure groups all firms by two-digit S.I.C. industry code, and by employment size. Six employment classes are used--4-9 employees; 10-19 employees; 20-49 employees; 50-99 employees; 100-249 employees; and 250 or more employees. Thus, a group of firms in this procedure means a collection of



We would like to express our gratitude to Mr. Rod Ries of the Minnesota Employment Service for sending us this Inflation Procedure.

firms with the same two-digit S.I.C. industry code and in the same employment class. The procedure has four steps.

Step One.

Base Period Employment [Universe Group]

Base Period Employment [Responding Group] = Base Period Group = α

Inflation Factor

Step Two.

Current Period Employment [Responding Group]  $x \alpha$  = Period Employment of Universe Group =  $\beta$ 

Step Three.

[All employment classes Current Universe Employment in same S.I.C. industry]

Add  $\beta$  for each employment class in same S.I.C. industry

= \( \lambda \)

= \( \lambda \)

Ster Four.

 $\lambda \times \alpha = Adjusted Inflation Factor = \Delta$ 

The base period employment for the universe group came from the Iowa Development Commission, the responding group data came from the completed questionnaires, and the current universe employment came from the Iowa Employment Service (Des Moines, Iowa). The Adjusted Inflation Factor ( $\Delta$ ) is derived by the above four steps for each group of firms (firms in the same employment class



<sup>2.</sup> We would like to express our gratitude to Mr. David Johnston, Chief of Research and Statistics, Iowa Employment Service.

and the same two-digit S.I.C. industry), and then used to inflate or multiply the reported job vacancies into an estimate of the total job vacancies for all the Iowa manufac uring firms employing four or more employees.

#### Results

The results of applying this Inflation Procedure to the completed questionnaires are shown in Appendix Table IV. This table shows the inflated job vacancies by detailed occupational group (three-digit D.O.T.) and by industry group (two-digit S.I.C.). While we do not report the Adjusted Inflation Factor ( $\Delta$ ) for each group they can be supplied on request.

Appendix Table IV estimates the total full-time job vacancies in Iowa manufacturing firms for the March through August 1968 period to number 21,373. This means that the average inflation factor was 1.88 for this study.

It is hoped that the inflated job vacancies reported in this study will be a further aid to Area Vocational Schools and other interested organizations who need information on job vacancies in Iowa. Over time this Inflation Procedure will hopefully be a valuable addition to our job vacancy studies by supplying an estimate of job openings in nonresponding business firms.

-19-

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TABLE I

NUMBER OF JOB VACANCIES

BY MAJOR AND DETAILED OCCUPATIONAL GROUPS

IOWA AND MULTI-COUNTY SUB-AREAS, March 1968-Aug. 1968

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DETAILED OCCUPATIONAL GROUP		Sewing Machine Oprs., Nongarment Fab. & Rpr. of Textile Leather & Rel.	) Structural Work Occupations Fitting, Bolting, Screwing & Rel. Tinsmiths, Coppersmiths & Sheet Metal		Gas welders Combination Arc & Gas Welders Resistance Welders	Welders, Flame Cutters & Rel. Lighting Equip. Building Wiring & Rpr. Large Hsld. Appl. & Com. & Ind. Equip. Elec. & Electr. Prod. Fab. Inst. & Rpr. Assembly, Instl. & Rpr. Electrical Prod. Construction & Matne. Painting & Rel.	Rel. Steamfitter	Misc. Construction Work Misc. Structural Work	Miscellaneous Occupations Concrete Mixing Truck Drivers
	00 N	787 789	801 804 804	806 809 810	811 812 813	819 824 827 828 829 840	850 853 860 862 865	869 899	006

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DETAILED OCCUPATIONAL GROUP	ì		Dump Truck Drivers Truck Drivers, Heavy Truck Drivers, Light Packaging Hoisting & Conveying Materials Moving & Storing	l H G G G	Hand Compositors, Typesetters & Rel. Stereotypers & Rel. Bookbinding & Rel. Graphic Art Work	
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NUMBER OF JOB VACANCIES INDUSTRY AND MAJOR OCCUPATIONAL GROUP, IOWA, MAR. 1968-AUG. 1968 (FULL-TIME)  INDUSTRY GROUP	PROFESSIONAL, TECHNICAL,	RICAL & SAL	SERVICE	FARMING, FISHERY	PROC	M.ACHINE TRADES	BENCH WORK	STRUCTURAL WORK	MISCELLANEOUS OCC.	TOTAL
Ordnance & Acc.	9	50	120	411			761	1	100	1452
Food & Rel.	42	67	5	22	1497	28		58	273	1992
Apparel	-	_2	11				371			384
Lumber & Wood		1			21	20	25	36	31	134
Furniture & Fixtures	3	8				18	170	12	18	
Paper & Rel.	2		6.		23	235	40	4	82	392
Printing, Publishing & Rel.	21	29				169			36	255
Chemicals & Rel.	28	21	1	8	315	3	250	6		706
Petroleum Refining & Rel.								2	2	4
Rubber & Plastic			27		154	9	66			256
Leather & Rel.					17					17
Stone, Clay & Glass	6	1		20	241	26	1	32	241	568
Primary Metal Industry	17	. 8			225	57		11		418
Fabricated Metal	10	10			21	223	201	345		
Machinery (except elec.)	57	33			48	789	306	201	76	1510
Elec. Machinery	54	69		1	4	308	326	619		1382
Transportation Equip.					2	62	7	140		213
Control Inst; Photo goods; Time Inst.	36	36			1	223	27	1		324
Misc. Mfg.	11	7				157	125	24	5	329
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TOTALS	296	342	170	462	2569	2327	2766	1492	964	11388

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#### TABLE III

NUMBER OF JOB VACANCIES AND AVERAGE HOURLY WAGE RATES OFFERED,

BY DETAILED OCCUPATIONAL GROUP,

99 COUNTIES. MARCH 1968-AUGUST 1968 (FULL-TIME)

#### SUB-AREA 1

COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE 1/
Ida	Stock Clerks & Rel.	1	2.00
	Extruding & Drawing	5	2.25
	Corrugating Work	2	1.60
	Cabinet Makers	10	1.93
	Photoengraving	1	1.60
Lyón	Plant Farming	1	1.60
Plymouth	Salesman, Chemicas & Drug Preparations	1	3.13
	Heating, Rendering, Melting, Drying	6	
	Machinists & Rel.	1	1.65
	Misc. Machine Installation & Repair	2	1.65
	Printing Press Work	1	1.80
	Materials Moving & Storing	3	1.60
Sioux	Agri., Forestry, & Fishing Ind. Mgrs.	1	2.20
	Plant Farming	1	1.60
	Separating, Crushing, Milling & Chopping	1	1.60
	Processing, Nonmetallic Minerals	2	1.65
	Machinists & Rel.	2	2.02
	Tool Makers & Rel.	1	2.10
	Metal Machining	7	2.05
	Fab. of Amm., Fireworks, Explosives & Rel.	1	2.00
	Tinsmiths, Copersmiths & Sheet Metal	15	1.75
	Comb. Arc & Gas Welders	2	2.02
	Large Hsld. Appl. & Com. & Ind. Equip.	43	1.60
	Concrete Mixing Truck Drivers	9	1.68
	Truck Drivers, Heavy	2	1.70
Woodbury	Chemical Engineering	1	***
	Mathematics & Physical Sciences	1	
	Purchasing Mgt.	4	
	Stenographers	3	2.08
	Typists	5	1.96
	Stenography, Typing, Filing & Rel.	6	1.91
	Stock Clerks & Rel.	10	1.93
	Electroplating	1	3.00

<sup>1/</sup> Employers reported beginning wage rate.
Dash indicates wage data not reported.



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Woodbury (cont.)	Slaughtering, Breaking, Curing Processing, Food & Rel. Processing, Chemical & Rel. Processing, Nonmetallic Minerals Machinists & Rel. Turning Metal Machining Punching & Shearing Misc. Metal Working Printing Press Work Filing, Grinding, Buffing, Cleaning & Pol. Metal Unit Assembly & Adjusting Assembly & Rpr Radio & T.V. Painters Spray Tinsmiths, Copersmiths & Sheet Metal Comb. Arc & Gas Welders Welders, Flame Cutters & Rel. Large Hsld. App. & Com. & Ind. Equip. Packaging Materials Moving & Storing Packaging & Material Handling Hand Compositors, Type Setters & Rel.	50 43 46 21 3 11 8 3 1 1 1 5 25 1 13 17 1 500 2 4 1	2.79 2.68 1.71 2.40 2.06 2.08 2.15 2.64 3.50 3.25 1.95 2.33 2.11 2.41 3.03 1.74 2.35 2.00 2.72 3.50
	SUB-AREA 2		
Cass	Fab. & Rpr. of Assorted Materials Sewing Machine Oprs., Nongarment Arc Welders Truck Drivers, Heavy	4 1 2 1	1.60 1.60 1.60 2.10
Fremont	Salesmen, Foodstuff, Beverages, Tobacco	1	1.75
Harrison	Printing Press Work Hand Compositors, Type Setters, & Rel.	1 1	2.00
Montgomery	Forming Truck Drivers, Heavy	20 2	2.00 1.60
Page	Plant Farming Processing Food & Rel. Metal Machining Type Setting and Composing Carpenters & Rel. Truck Drivers, Heavy	5 3 6 1 10 3	1.60 2.34  2.65 1.60
Pottawat- tamie	Electrical Eng. Misc. Clerical Occ.	2 1	3.95 3.40



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Pottawat- tamie (cont.)	Salesman, Printing & Adv. Meat Cutters (not slaughtering) Plant Farming Mixing, Compndg., Blndg., Kneading & Shaping Heating, Rendering, Melting, Drying Slaughtering, Breaking, Curing Processing, Food & Rel. Forming Punching & Shearing Concrete Mixing Truck Drivers Truck Drivers, Heavy	1 1 1 1 7 160 1 5 2	3.00 3.50 1.60 1.80 1.80 2.50 1.64 1.60 1.60
	SUB-AREA 3		
Buena Vista	Mathematics & Physical Sciences. Secretaries Bookkeepers Sales Clerks Separating, Crushing, Milling, Chopping Processing, Chemicals & Rel. Truck Drivers, Heavy Packaging Hoisting & Conveying	1 2 1 1 1 8 6 2	2.03  1.75 1.90 1.60 1.93 1.93 1.85
Cherokee	Mechanical Engineering Slaughtering, Breaking, Curing Processing, Food & Rel. Metal Machining Combination Arc & Gas Welders Truck Drivers, Heavy Truck Drivers, Light Packaging	2 2 4 14 9 5 3 5	2.50 1.95 1.70 1.72 1.86 1.80 1.75
Clay	Processing, Wood & Wood Prod. Processing Nonmetallic Minerals Metal Unit Assembly & Adjusting Sewing Machine Oprs., Nongarment Truck Drivers, Heavy Materials Moving & Storing	20 1 4 10 2 1	1.95 1.60 1.70 1.60 1.60
Dickinson	Mechanical Engineering Commercial Artists Personnel & Training Administration Misc. Managerial Work Forming Processing, Nonmetallic Minerals	6 1 1 2 2	3.15  2.00  1.74



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Dickinson	Machinists & Rel.	5	2 02
(cont.)	Toolmakers & Rel.	2	2.82
	Metal Machining	21	3.50
	Fab. & Rpr. of Sporting Goods		1.87
	Carpenters & Rel.	25	1.60
	Concrete Mixing Truck Drivers	8	1.92
	Truck Drivers, Heavy	1	1.74
	Packaging	2	2.07
		2	1.65
Emmet	Stenography, Typing, Filing & Rel.	4	1.60
	Salesman, Foodstuffs, Beverages, Tobacco	5	3.75
	Porters & Cleaners	2	1.60
	Processing, Food & Rel.	30	3.09
	Packaging	3	2.29
O'Brien	Sewing Machine Oprs., Nongarment	16	1.70
	Packaging	2	2.20
0sceola	Concrete Mixing Truck Drivers	0	
	obnezete mining fluck blivels	2	1.60
Palo Alto	Processing, Chemical & Rel.	8	1.70
	Machinists & Rel.	1	3.00
	Combination Arc & Gas Welders	1	1.80
	SUB-AREA 4		
Audubon	Heating, Rendering, Melting, Drying	1	1.90
	Truck Drivers, Heavy	1	1.60
		1	1.00
Crawford	Computing & Accounting-Recording	1	3.50
	Telephone Oprs.	1	1.60
	Misc. Clerical Occ.	1	1.60
	Salesman, Printing & Adv.	1	3.50
	Heating, Rendering, Melting, Drying	4	2.81
	Slaughtering, Breaking, Curing	30	2.81
	Processing, Food & Rel.	. 7	2.81
	Processing, Leather & Textiles	35	2.63
	Typesetting & Composing	1	
	Misc. Structural Work	1	2.60
	Concrete Mixing Truck Drivers	4	2.81
	Packaging & Material Handling		1.90
	windling	24	3.01
Greene	Salesman, Printing & Adv.	1	3.00
	Misc. Metal Working	1	
	Printing Press Work	1	2.50
	Sewing Machine Oprs., Nongarment	3	
	Combination Arc & Gas Welders	1	
	Truck Drivers, Heavy	3	1.67

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COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Sac	Salesman, Foodstuffs, Beverages, Tobacco Processing, Food & Rel. Processing, Nonmetallic Minerals	1 5 5	3.00 1.80 1.75
She1by	Salesman, Foodstuffs, Beverages, Tobacco Salesman, Ind. Const. Mining & Drilling Equip. Truck Drivers, Heavy Packaging	2 1 1 1	2.20 6.00 2.20 2.20
	SUB-AREA 5		
Cerro Gordo	Industrial Engineering Salesman, Printing & Adv. Processing, Chemicals & Rel. Processing, Nonmetallic Minerals Punching & Shearing Filing, Grinding, Euffing, Cleaning & Pol. Fab. & Rpr. of Misc. Plastics Arc Welders Lighting Equip., Building Wiring & Rpr. Carpenters & Rel. Packaging & Material Handling	1 10 6 2 3 6 2 1 2 9	3.00 2.51 2.65 3.75 2.25 1.87 3.37 3.30 1.80 2.22
Floyd	Reacting	2	2.10
Franklin	Mechanical Engineering Manufacturing Industry Mngt. Misc. Machine Installation & Rpr. Typesetting & Composing Packaging & Material Handling Hand Compositors Typesetters & Rel.	1 1 1 1 1	1.87  1.60
Hancock	Stenography, Typing, Filing & Rel. Transportation Equip. Ass. & Rpr. Comb. Arc & Gas Welders Truck Drivers, Heavy Hand Compositors, Typesetters & Rel.	2 6 2 5 1	1.29 1.85 2.00 1.85 1.80
Kossuth	Machinists & Rel. Metal Machining Misc. Metalworking	5 2 12	2.23 2.25 2.12
Winnebago	Separating, Crushing, Milling, Chopping Toolmakers & Rel. Metal Assembly & Adjusting Assembly & Rpr. of Elec. Appl. & Fixt. Fab. & Rpr. of Assorted Material Lighting Equip. Building Wiring & Rel.	1 1 2 2 4 1	1.65 3.25 1.75 1.60 1.60 2.80



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Winnebago (cont.)	Misc. Structural Work Packaging & Material Handling	3 5	2.03 1.92
Worth	Farm Machinery Opr. Packaging Hoisting & Conveying	1 1 1	1.75 1.60 1.60
• • •	SUB-AREA 6		
Calhoun	Typesetting & Composing Hoisting & Conveying	2 1	2.05 1.75
Hamilton	Ore Refining & Foundry Work Processing, Food & Rel. Processing, Chem. & Rel. Truck Drivers, Heavy	6 9 5 1	2.50 2.10 1.75 1.75
Humbolt	Machinists & Rel. Metal Unit Assembly & Adjusting Painters Spray Combination Acc & Gas Welders	3 5 3 3	2.48 2.41 2.48 2.48
Pocahontas	Ore Refining & Foundry Work Turning Boring Typesetting & Composing Printing Press Work Metal Unit Assembly & Adjusting Lighting Equip., Building Wiring & Rpr.	1 6 7 1 2 3 4	2.25 1.70 1.74 2.45 2.75 1.80 3.50
Webster	Industrial Engineering Mathematics Chemistry Biological Sciences Writers & Editors, Publications Administrative Specialties Misc. Managerial Work Stenography, Typing, Filing & Rel. Shipping & Receiving Clerks Processing, Food & Rel. Reacting Processing, Chemicals & Rel. Processing, Nonmetallic Minerals Toolmakers & Rel. Misc. Machine Installation & Rpr. Corrugating Work	3 1 1 2 2 1 3 2 1 3 5 28 2 2 2 8	2.74   1.75 2.80 3.09 2.98 2.25 2.00 3.06 3.15 2.10

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COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
		_	
Webstr	Misc. Machine Trades Occ.	5 - <b>-</b>	1.74
(cont.)	Metal Unit Assembly & Adjusting	15 25	2.54
	Assembly & Rpr. of Elec. Components	25	1.70
	Combination Arc & Gas Welders	10	2.54
	Misc. Construction Work	3	1.60
	Concrete Mixing Truck Drivers	4 3	1.90
	Truck Drivers, Heavy		2.12
	Packaging & Material Handling	10	2.39
Wright	Coppersmiths, Tiasmiths & Sheet Metal	3	1.60
	Concrete Mixing Truck Drivers	1	1.70
	Dump Truck Drivers	1	1.70
	Packaging	6	2.28
	Hand Compositors, Typesetters & Rel.	2	2.00
	SUB-AREA 7		
Boone	Agri., Forestry & Fishing Ind. Mgrs.	1	3.30
	Porters & Cleaners	1	2.00
	Molders Coremakers & Rel.	4	2.87
	Mixing, Compndg., Blndg., Kneading, Shaping	1	2.60
	Machinists & Rel.	6	2.87
	Metal Machining	12	2.31
	Tinsmiths, Coppersmiths & Sheet Metal	6	2.67
	Combination Arc & Gas Welders	6	2.79
Dallas	Mixing, Compndg., Blndg., Kneading, Shaping	1	1.70
Darras	Slaughtering, Breaking, Curing	15	3.24
	Processing, Food & Rel.	20	3.12
	Processing, Nonmetallic Minerals	10	2.23
	Turning	2	2.55
	Metal Machining	5	2.37
	Punching & Shearing	1	
	Filing, Grinding, Buffing, Cleaning & Pol.	$\frac{1}{1}$	
	Combination Arc & Gas Welders	2	2.48
	Packaging	2	1.10
Guthrie	Writers & Editors, Publications	7	2.50
outhire	Hand Compositors, Typesetters & Rel.	1 3	2.00
	nana compositors, ryposotrors a Ref.	<b>J</b>	2.00
Po1k	Electrical Engineering	1	
	Mechanical Engineering	17	2.75
	Chemistry	3	3.00
	Matnematics & Physical Sciences	6	2.25
	Biological Sciences	2	3.00
	Commercial Artists	1	3.75



COUNTY	OCCUPATIONS	NUMBER OF VACANCIES	WAGE
Polk	Secretaries	5	2.24
(cont.)	Stenographers	2	
	Stenography, Typing, Filing & Rel.	5	1.73
	Bookkeepers	2 3	2.40
	Production Clerks	3	
	Shipping & Receiving Clerks	1	2 <b>.9</b> 0
	Stock Clerks & Rel.	2 3	2.93
	Salesman, Chem. & Drug Preparations		3 <b>.0</b> 0
	Salesman, House Furnishings	2	1.60
	Routemen	4	
	Porters & Cleaners	29	2.16
	Heat Treating	7	2.43
	Slaughtering, Breaking, Curing	1	2.92
	Cooking & Baking	1	1.50
	Processing, Food & Rel.	3	2.32
	Calendering, Sizing, Coating & Rel.	5	2.10
	Casting & Molding	2	3.00
	Extruding	6	2.05
	Processing, Chem. & Rel.	177	2.61
	Baking, Drying & Heat Treating	1	2.35
	Forming	25	2.54
	Processing, Nonmetallic Minerals	50	2.49
	Machinists & Rel.	2	2.50
	Toolmakers & Rel.	2	3.89
	Metal Machining	91	2.64
	Punching & Shearing	12	2.58
	Fabricating Machine Work	3	2.08
	Misc. Metal Working	46	1.69
	Motorized Vehicle & Engine Equip. Rpr.	2	2.47
	Misc. Machine Installation & Rpr.	7	1.95
	Corrugating Work	111	1.62
	Printing Press Work	8	3.41
	Bookbinders & Rel.	1	1.70
	Cabinetmakers	4	2.80
	Misc. Machine Trades Occ.	1	2.82
	Metal Unit Assembly & Adjusting	190	2.45
	Assembly & Rpr. of Elec. Equip.	1	3.42
	Fab. & Rpr. of Assorted Materials	46 20	1.64
	Fab. & Rpr. of Misc. Plastics	30	1.74
	Fab. & rpr. of Wood Products	8	1.60
	Sewing Machine Opr., Nongarment	44	2.01
	Tinsmiths, Coppersmiths & Sheet Metal	80	2.39
	Arc Welders	9	3.08
	Combination Arc & Gas Welders	37	2.76
	Large Hsld. Appl. & Com. & Ind. Equip.	5	2.80
	Carpenters & Rel.	5	2.10
	Misc. Construction Work	1	3.00



		NUMBER OF	
COUNTY	OCCUPATION	VACANCIES	WAGE
Polk	Misc. Structural Work	5	2.94
(cont.)	Concrete Mixing Truck Drivers	14	3.00
	Truck Drivers, Heavy	5	2.04
	Packaging	71	1.84
	Materials Moving & Storing	43	2.95
	Packaging & Material Handling	12	2.10
	Art Work Brush Spray or Pen	1	3.00
	Bookbinding & Rel.	1	3.61
	<del>"</del>	10	
	Graphic Art Work	10	1.91
Story	Industrial Engineering	1	9.00
	Stenography, Typing, Filing & Rel.	2	1.60
	Gardening & Groundskeeping	1	2.50
	Processing, Food & Rel.	2	1.60
	Machinists & Rel.	1	2.70
	Toolmakers & Rel.	8	3.73
	Metal Machining	3	2.25
	Misc. Metal Working	1	2.50
	Printing Press Work	1	3.00
	Painters Spray	1	2.40
	Combination Arc & Gas Welder	6	2.38
•	Truck Drivers, Heavy	6	1.65
	•	2	2.50
	Hoisting & Conveying		
	Photoengraving	1	1.75
Warren	Misc. Metal Work	2	2.30
	Tinsmiths, Coppersmiths & Sheet Metal	2	1.80
	Combination Arc & Gas Welders	6	2.00
	Truck Drivers, Heavy	1	1.60
	Packaging & Material Handling	2	1.60
	rackaging a material mandring	2	1.00
	SUB-AREA 8		
Adama	Processing Food & Pol	5	1.82
Adams	Processing, Food & Rel.	5	
	Materials Moving & Storing	2	2.00
Clarke	Toolmakers & Rel.	1	3.00
o z d z k c	Metal Machining	3	1.70
	Metal Hachining	3	1.70
Decatur	Processing, Chem. & Rel.	1	1.60
Taylor	Salesman, Foodstuffs, Beverages, Tobacco	4	-
<i>y</i>	Salesman, Chemicals & Drug Preparations	2	3.13
	Routemen	1	1.70
	Processing, Chem. & Rel.	10	1.65
	Trocessing, onem, a ver-	10	T.03



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Union	Mechanical Engineering Misc. Professional & Technical & Man. Occ. Secretaries Pouring & Casting Molders, Coremakers & Rel. Ore Refining & Foundry Work Processing, Food & Rel. Machinists & Rel. Abrading Tinsmiths, Coppersmiths & Sheet Metal Misc. Metal Fabrication Combination Arc & Gas Welders Truck Drivers, Heavy	1 1 2 8 3 10 3 5 1 2 1 2	1.97 2.52 2.12 2.26 2.27 2.02 2.00 2.28 2.07 1.65 2.07 1.90 2.00
	SUB-AREA 9		
Black Hawk	Civil Engineering Mechanical Engineering Duplicating Machine Opr. Stenography, Typing, Filing & Rel. Salesman, Chemicals & Drug Preparations Horticultural Specialty Work Molders, Coremakers & Rel. Ore Refining & Foundry Work Processing Nonmetallic Minerals Machinists & Rel. Toolmakers & Rel. Boring Metal Machining Misc. Metal Working Folding, Creasing, Scolding & Gluing Corrugating Work Paper Working Printing Press Work Printing Work Fab. of Amm., Fireworks, Explosives, & Rel. Fab. & Rpr. of Assorted Materials Painters Spray Fab. & Rpr. of Wood Products Stone Cutting & Carving Fab. & Rpr. of Textile, Leather & Rel. Tinsmiths, Coppersmiths & Sheet Metal Arc Welders Combination Arc & Gas Welders Assembly Inst. & Rpr. Electrical Products Construction & Mntnc. Painting & Rel. Punching & Shearing Metal Forming	1 19 1 13 1 20 5 12 35 23 35 8 97 5 1 2 2 2 2 3 10 30 6 1 1 4 30 47 16 1 1 1 20	4.13 2.62  2.75 2.00 2.56  2.29 3.27 4.22 2.80 2.71 3.00 2.65 2.46 2.59 3.17 3.10 2.74 2.24 2.26 2.35 2.75 2.35 2.75 2.35 2.75 2.35 2.75 2.35 2.75 2.26 2.75 2.27 2.24 2.26 2.35 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.26 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75

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COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Black Hawk	Concrete Mixing Truck Drivers	13	3.05
(cont.)	Truck Drivers, Heavy	1	2.36
	Materials Moving & Storing	2	2.55
	Packaging & Material Handling	3	1.70
Bremer	Mechanical Engineering	1	waya famile
	Salesman Metal & Metal Products	1	1 06
	Plant Farming	3	1.96
	Processing, Chem. & Rel.	6	1.83 2.80
	Machinists & Rel.	3 2	2.37
	Boring Watal Machining	36	2.37
	Metal Machining	1	2.57
	Metal Assembly & Adjusting Combination Arc & Gas Welders	i	2.65
	Elec. & Electr. Prod. Fab. Inst. & Rpr.	1	4.00
	Concrete Mixing Truck Drivers	6	2.12
	Hand Compositors Typesetters & Rel.	i	1.10
	•		
Buchanan	Stenography, Typing, Filing & Rel.	2	1.75
	Bookkeeping	1	1.90
	Turning	2	2.50
	Milling & Planing	2	2.50
	Printing Press Work	1	2.40
Butler	Plant Farming	6	1.88
	Processing, Nonmetallic Minerals	2	1.75
	Truck Drivers, Heavy	2	1.88
	Packaging	1	1.80
	Materials Moving & Storing	1	1.70
	SUB-AREA 10		
Grundy	Processing, Chem. & Rel.	1	1.60
	Plastics, Synthetics, Rubber & Leather Work	6	1.60
	Truck Drivers, Heavy	1	1.60
Hardiń	Sales & Distribution Management	1	440 640
	Agri., Forestry, & Fishing Ind. Mgrs.	1	
	Misc. Clerical Occ.	1	1.60
	Salesman, Foodstuffs, Beverages, Tobacco	1	2.00
	Misc. Farming & Rel.	2	2.25
	Separating, Crushing, Milling, Chopping	3	1.93
	Processing, Food & Rel.	2	1.93
	Fab. & Rpr. of Games & Toys	2	1.80
	Tailors & Dressmakers	1	1.60
	Sewing Machine Oprs. Nongarment	6	1.60
	Concrete Mixing Truck Drivers	1 5	2.00 2.13
	Truck Drivers, Heavy	) 1	1.87
	Truck Drivers, Light	1	1.90
	Packaging	<b>T</b>	1.90



		NUMBER OF	
COUNTY	OCCUPATION	VACANCIES	WAGE
<del></del>			
Jasper	Mechanical Engineering	8	3.00
	Commercial Artists	1	
	Designers	2	3.61
	Secretaries	4	2.25
	Stenography, Typing, Filing & Rel.	30	2.00
	Shipping & Receiving Clerks	1	2.21
	Plant Farming	1	1.80
	Molders, Coremakers & Rel.	1	3.30
	Ore Refining & Foundry Work	4	2.04
	Casting & Molding	2	1.94
	Machinists & Rel.	1	2.44
	Turning	2	1.84
	Metal Forming	32	2.26
	Misc. Metal Working	150	2.78
	Printing Press Work	2	3.41
	Fab. & Rpr. of Wood Products	3	2.70
	Concrete Mixing Truck Drivers	2	2.00
	Truck Drivers, Light	1	1.75
	Packaging	3	1.70
Marshall	Mechanical Engineering	19	2.99
	Chemical Engineering	3	4.38
	Industrial Engineering	3	4.38
	Writers & Editors, Publications	1	
	Inspecting & Investigating Man. & Pub. Service	· 1	
	Stenography, Typing, Filing & Rel.	30	1.81
	Salesman, Printing & Adv.	1	
	Melting	3	2.47
	Pouring & Casting	28	2.50
	Molders, Coremakers & Rel.	1	2.71
	Ore Refining & Foundry Work	12	2.20
	Cooking & Baking	12	2.58
	Processing, Chem. & Rel.	1	1.90
	Impregnating, Coating & Glazing	2	2.10
	Forming	3	1.70
	Toolmakers & Rel.	3	2.24
	Abrading	2	2.15
	Turning	107	2.59
	Boring	3	2.10
	Metal Machining	131	2.35
	Metal Forming	3	2.10
	Misc. Machine Installation & Rpr.	2	2.07
	Corrugating Work	1	3.00
	Printing Press Work	2	3.75
	Patternmakers	1	2.70
	Filing, Grinding, Buffing, Cleaning & Pol.	60	2.21



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Marshall (cont.)	Metal Unit Assembly & Adjusting Fab. & Rpr. of Instru. to Meas. Phys. Char. Arc Welders Materials Moving & Storing Packaging & Material Handling Hand Compositors, Typesetters & Rel. Stereotypers & Rel.	38 5 5 6 10 1	2.58 2.00 2.91 2.28 2.17 3.48 3.48
Poweshiek	Writers & Editors, Publications Stenography, Typing, Filing & Rel Processing, Chem. & Rel. Metal Machining Punching & Shearing Misc. Metal Working Typesetting & Composing Printing Press Work Resistance Welders Packaging	1 2 5 10 10 12 1 1 6 4	2.50 2.00 1.75 3.25 2.50 2.00 2.25 2.25 3.00 2.00
Tama	Chemistry Administrative Specialties Salesman, Foodstuffs, Beverages, Tobacco Mixing, Compndg., Blndg., Kneading, Shaping Processing, Food & Rel. Processing, Paper & Rel. Carpenters & Rel. Truck Drivers, Heavy Truck Drivers, Light  SUB-AREA 11	1 1 2 3 7 3 3 1	 2.00 2.08 2.44 2.63  2.00
Appanoose	Toolmakers & Rel. Turning Metal Machining Corrugating Work Typesetting & Composing	15 10 2 1 2	3.00 2.85 1.92 1.75 2.32
Davis	Fab. & Rpr. of Wood Products Combination Arc & Gas Welders Resistance Welders	6 3 1	1.60 2.25 3.00
Jefferson	Shipping & Receiving Clerks Ore Refining & Foundry Work Machinists & Rel. Metal Machining Sewing Machine Oprs., Nongarment	1 15 4 20 150	2.02 2.40  2.07 1.60



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Keokuk	Wood Machining Assembly of Wood Products Carpenters & Rel. Truck Drivers, Heavy Packaging & Material Handling	1 1 5 3 3	1.93 1.78 1.78 1.81 1.67
Lucas	Misc. Metal Fabrication Combination Arc & Gas Welders	7 12	2.00 2.00
Mahaska	Metal Forming Metal Unit Assembly & Adjusting Sewing Machine Oprs., Nongarment Arc Welders Packaging & Material Handling	6 4 35 2 2	2.25 2.05 1.60 2.40 2.25
Marion	Shipping & Receiving Clerks Processing, Wood & Wood Products Machinists & Rel. Metal Machining Wood Machining Metal Unit Assembly & Adjusting Painters, Brush Assembly of Wood Products Fab. & Rpr. of Wood Products Sewing Machine Oprs., Nongarment Combination Arc & Gas Welders Glaziers & Rel. Packaging Materials Moving & Storing	2 1 6 1 6 6 1 3 4 20 6 3 1 2	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75
Monroe	Metal Unit Assembly & Adjusting Fab. & Rpr. of Hats, Gloves & Rel. Sewing Machine Oprs., Nongarment Tinsmiths, Coppersmiths & Sheet Metal	50 3 6 50	1.60 1.60 1.60 1.70
VanBuren	Laying Out, Marking, Cutting & Punching Sewing Machine Oprs., Nongarment Combination Arc & Gas Welders	5 5 3	1.60 1.60 2.00
Wapello	Porters & Cleaners Cooking & Baking Processing, Food & Rel. Toolmakers & Rel. Metal Machining Misc. Machine Installation & Rpr. Tinsmiths, Coppersmiths & Sheet Metal Misc. Structural Work	1 125 2 10 5 1 2	2.12 2.30 3.09 3.42 2.20 2.80 1.89 3.25



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Washington	Bookkeepers Salesman, Foodstuffs, Beverages, Tobacco Processing, Food & Rel. Processing, Nonmetallic Minerals Machinists & Rel. Combination Arc & Gas Welders Truck Drivers, Heavy Packaging	1 3 125 3 1 3 4 2	3.25 2.12 2.00 3.00 2.50 2.15 2.00
Waỳne	Machinists & Rel. Metal Machining Storage Battery Assembly Sewing Maching Oprs., Nongarment Tinsmiths, Coppersmiths & Sheet Metal Combination Arc & Gas Welders  SUB-AREA 12	5 10 6 10 3 5	2.50 1.60 1.60 1.90  2.50
Allamakee	Processing, Food & Rel. Printing Press Work Truck Drivers, Heavy	105 1 5	1.67 2.25 1.67
Chickasaw	Misc. Processing Occ. Turning Metal Machining Combination Arc & Gas Welders Truck Drivers, Heavy	2 6 5 4 2	2.00 2.39 2.06 2.39 2.00
Clayton	Cabinetmakers Sawing Fab. & Rpr. of Assorted Materials Laying Out, Cutting, Carving, Shaping & Sand. Fabrication & Rpr. of Wood Products Assembly Inst. & Rpr. of Electrical Prod. Carpenters & Rel. Plumbers, Gasfitters, Steamfitters, & Rel. Packaging Materials Moving & Storing	1 2 5 Wood 1 1 1 1 1 1	2.25 1.60    1.75 1.80
Fayette	Typists Stenography, Typing, Filing & Rel. Salesman, Foodstuffs, Beverages, Tobacco Routeman Processing, Food & Rel. Tinsmiths, Coppersmiths & Sheet Metal Packaging	1 3 2 2 4 7 4	1.60 1.75 3.50  1.75 2.47 2.21
Howard	Processing, Food & Rel.	5	1.60



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Winn och i ok	Drangaine Engl C Del	11	
willneshiek	Processing, Food & Rel. Metal Machining	11 4	1.70
	Concrete Mixing Truck Drivers	2	$1.80 \\ 1.60$
		2	1.00
	SUB-AREA 13		
Delware	Melting	1	2.50
	Molders, Coremakers & Rel.	2	2.85
	Ore Refining & Foundry Work	2	1.85
	Processing, Leather & Textiles	12	2.05
	Concrete Mixing Truck Drivers	4	2.15
Dubuque	Mechanical Engineering	2	2.81
	Chemical Engineering	1	
	Architecture & Engineering	1	1 07
	Stenography, Typing, Filing & Rel. Routeman	5 1	1.87
	Cooking & Baking	4	1.85 2.04
	Processing, Food & Rel.	1.79	3.07
	Casting & Molding	20	1.90
	Processing, Wood & Wood Products	5	2.50
	Turning	4	2.42
	Metal Machining	1.3	2.02
	Printing Press Work		2.55
	Metal Unit Assembly & Adjusting	8 <b>3</b>	1.88
	Fab. & Rpr. of Instru. to Meas. Phys. Char.	10	2.30
	Fab. & Rpr. of Misc. Plastics	2	2.90
	Assembly of Wood Products	15	1.88
	Fab. & Rpr. of Wood Products	10	1.88
	Upholstering, Mattress Fab. & Rpr.	10	2.37
	Sewing Machine Oprs., Nongarment	15	1.98
	Combination Arc & Gas Welders	2	2.50
	Glaziers & Rel.	1	2.12
	Truck Drivers, Heavy	1	2.00
	Hoisting & Conveying	1	
	Materials Moving & Storing	7	2.22
Jackson	Administrative Specialties	1	
	Mixing, Compndg., Blndg., Kneading, Shaping	1	
	Separating, Crushing, Milling, Chopping	2	
	Sawing	2	2.88
	Truck Drivers, Heavy	3	2.10
	SUB-AREA 14		•
Benton	Agricultural Sciences	1	3.50
	Stenography, Typing, Filing & Rel.	1	J.JU
	Salesman, Foodstuffs, Beverages, Tobacco	1	3.13
		<u>.</u>	3.13

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COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
		VIOLITOTED	WAGE
Benton	Poultry Farming	5	1.60
(cont.)	Misc. Farming & Rel.	2	
	Processing, Nonmetallic Minerals	2	1.50
	Gear Machining	1	
	Metal Machining	11	2.25
	Misc. Metal Working	3	2.50
	Arc Welders	4	
	Combination Arc & Gas Welders	13	2.50
	Misc. Construction Work	25	2.60
	Truck Drivers, Heavy	1	1.80
Iowa	Writers & Editors, Publications	1	2.25
	Stenography, Typing, Filing & Rel.	1	
	Processing, Chem. & Rel.	25	2.23
	Metal Unit Assembly & Adjusting	75	2.46
	Carpenters & Rel.	2	1.95
	Packaging	2	1.75
Johnson	Stenography, Typing, Filing & Rel.	3	2.01
	Salesman, Farm & Garden Equip. & Supplies	1	
	Porters & Cleaners	1	2.21
	Plant Farming	1	2.00
	Processing, Chem. & Rel.	14	2.52
	Machinists & Rel.	2	3.40
	Toolmakers & Rel.	2	3.90
	Metal Working Machinery Rpr.	. 4	2.95
	Printing Press Work	5	2.17
	Metal Unit Assembly & Adjusting	2	2.10
	Fab. & Rpr. of Misc. Plastics	250	2.08
	Truck Drivers, Heavy	6	1.85
	Packaging	7	1.86
	Materials Moving & Storing	2	1.75
	Packaging & Material Handling	5	2.17
	Hand Compositors, Typesetters & Rel.	5	3.50
Jones	Writers & Editors, Publications	3	2.07
	Typists	1	1.60
	Bookkeepers	. 1	1.75
	Salesman, Foodstuffs, Beverages, Tobacco	1	1.80
	Salesman, Chemicals & Drug Preparations	, ~	3.00
	Processing, Food & Rel.	•	1.63
	Forming	20	
	Sawing	1	2.50
	Typesetting & Composing	1	2.50
	Sawing	1	
	Wood Machining	1	-
	Packaging	3	1.70



		NUMBER OF	
COUNTY	OCCUPATION	VACANCIES	WAGE
Linn	Electrical Engineering	2	3.25
	Mechanical Engineering	8	3.07
	Industrial Engineering	1	
	Chemistry	2	3.15
	Writers & Editors, Publications	1	3.50
	Commercial Artists	1	1.60
	Secretaries	1	2.50
	Stenography, Typing, Filing & Rel.	5	1.70
	Bookkeepers	1	2.00
	Shipping & Receiving Clerks	1	2.36
	Salesman, Foodstuffs, Beverages, Tobacco	6	
	Electroplating	4	2.87
	Processing, Food & Rel.	66	2.80
	Mixing & Blending	1	2.55
	Extruding	6	2.49
	Misc. Processing Occ.	25	2.36
	Machinists & Rel.	20	3.02
	Toolmakers & Rel.	1	3.22
	Turning Milling & Clemina	5	3.25
	Milling & Planing Boring	6	3.25
	Metal Machining	5	3.10
	Misc. Metal Working	219	2.82
	Misc. Machine Installation & Rpr.	7 8	2.91
	Mechanics & Machinery Repairmen	15	2.97
	Corrugating Work	60	3.25
	Printing Press Work	5	2.35 2.87
	Plastics, Synthetics, Rubber, Leather Work	1	2.62
	Metal Unit Assembly & Adjusting	65	2.02
	Fab. & Rpr. of Instru. to Meas. Phys. Char.	1	2.78
	Assembly & Rpr. Elec. Components	11	1.95
	Assembly & Rpr. of Elec. Ec. ip.	60	2.25
	Painting, Decorating & Rel.	2	2.32
	Fab. & Rpr. of Misc. Plastics	12	2.28
	Fitting, Bolting Screwing & Rel.	4	2.99
	Tinsmiths, Coppersmiths & Sheet Metal	45	2.71
	Misc. Metal Fabrication	4	3.06
	Gas Welders	2	2.87
	Combination Arc & Gas Welders	34	3.11
	Glaziers & Rel.	2	1.60
	Misc. Structura. Work	3	2.60
	Concrete Mixing Truck Drivers	5	3.06
	Truck Drivers, Heavy	77	2.08
	Packaging	9	2.10
	Materials Moving & Storing	2	2.25
	Packaging & Material Handling	7	2.56
	Photoengraving	1	3.50
	Hand Compositors, Typesetters & Rel.	1	3.60

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Biological Sciences	COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Chemical Engineering		SUB-AREA 15		
Chemistry 5 2.9 Agricultural Sciences 2 Accountants & Auditors 1 Secretaries 2 2.5 Salesman, Foodstuffs, Beverages, Tobacco 4	Clinton	Chemical Engineering Industrial Engineering Chemistry Mathematics & Physical Science Biological Sciences Accountants & Auditors Personnel Clerks Stenography, Typing, Filing & Rel. Shipping & Receiving Clerks Salesman, Foodstuffs, Beverages, Tobacco Pickling, Cleaning, Degreasing & Rel. Molders, Coremakers & Rel. Ore Refining & Foundry Work Slaughtering, Breaking, Curing Processing, Food & Rel. Frocessing, Paper & Rel. Reacting Processing, Chem. & Rel. Machinists & Rel. Turning Boring Metal Machining Fabricating Machine Work Metal Working Machinery Rpr. Misc. Machine Installation & Rpr. Corrugating Work Printing Press Work Plastics Synthetics Rubber & Leather Work Tailors & Dressmakers Fitting, Bolting, Screwing & Rel. Tinsmiths, Coppersmiths & Sheet Metal Misc. Metal Fabrication Misc. Structural Work Concrete Mixing Truck Drivers	1 1 4 3 2 2 1 11 1 1 2 2 2 15 25 1 2 6 7 10 1 2 80 1 2 50 2 11 2 50 2 11 2 80 1 2 80 1 90 2 90 1 90 2 90 2 90 2 90 2 90 2 9	2.61 2.61 2.85 2.43 2.71 2.06 2.61 2.60 4.73 2.67 2.72 1.80 1.80 2.90 2.78 2.27 3.40 1.75 1.60 2.55 2.71 1.80 2.61 2.61 2.69 1.75
	Muscatine	Chemistry Agricultural Sciences Accountants & Auditors Secretaries Salesman, Foodstuffs, Beverages, Tobacco Porters & Cleaners	5 2 1 2 4 10	4.83 2.95  2.50  2.36 2.00



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Muscatine	Processing, Chem. & Rel.		0.61
(cont.)	Processing, Leather & Textiles	4	2.61
(00)	Metal Machining	17	2.40
	Fab. & Rpr. of Assorted Materials	10	2.36
	Fab. & Rpr. of Misc. Plastics	10	2.63
	Arc Welders	60	
		10	2.63
	Truck Drivers, Heavy	14	2.10
	Packaging /	10	2.72
Scott	Aeronautical Engineering	9	
	Electrical Engineering	10	4.75
	Mechanical Engineering	33	4.65
	Metallurgy & Metallurgical Engineering	3	***
	Industrial Engineering	7	4.75
	Architecture & Engineering	1	4.50
	Writers & Editors, Publications	4	2.50
	Commercial Artists	2	2.75
	Accountants & Auditors	6	
	Secretaries	2	2.32
	Typists	1	1.70
	Stenography, Typing, Filing & Rel.	28	2.17
	Computing & AccountingRecording	1	1.80
	Salesman, Scientific Apparatus	1	
	Pressing Occ.	5	2.05
	Heat Treating	5	3.29
	Melting	1	3.00
	Molders, Coremakers & Rel.	1	2.50
	Ore Refining & Foundry Work	101	2.74
	Reacting	20	2.78
	Processing, Chem. & Rel.	2	
	Machinists & Rel.	40	3.51
	Toolmakers & Rel.	13	3.59
	Abrading	5	3.29
	Turning	22	3.39
	Milling & Planing	30	3.21
	Boring	2	3.25
	Metal Machining	110	
	Fabricating Machine Work	40	2.61
	Printing Press Work	4	2 70
	Filing, Grinding, Buffing, Cleaning & Pol.	50	3.79
	Metal Unit Assembly & Adjustment	5	3.07
	Fab. & Rpr. of Instru. to Meas. Phys. Char.		2.10
	Fab. & Rpr. of Photo Equip. & Supplies	40 7	1 70
	Assembly & Rpr. of Motors Gen. & Rel.		1.70
	Laying Out, Cutting, Carving, Shaping & Wood Pi	2	2.81
	Laying Out, Cutting, Carving, Snaping & Wood Pi Laying Out, Marking, Cutting, Punching		2.08
	Handsewers Mendero Embanda vite a net	2	2.75
	Handsewers, Menders, Embroid. Knit. & Rel. Sewing Machine Oprs., Nongarment	2	1.80
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COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Scott (cont.)	Lighting Equip., Building Wiring & Rpr. Truck Drivers, Light Packaging Packaging & Material Handling	2 2 87	3.80 2.10 2.75
		50	3.14
	SUB-AREA 16		
Des Moines	Civil Engineering Mechanical Engineering Chemical Engineering Industrial Engineering Mining Management Typists Stenography, Typing, Filing & Rel. Porters & Cleaners Molders, Coremakers & Rel. Ore Refining & Foundry Work Processing, Chem. & Rel. Machinists & Rel. Metal Machining Misc. Metal Working Misc. Machine Installation & Rpr. Printing Press Work Cabinetmakers Turning Filing, Grinding, Buffing leaning & Pol. Assembly & Rpr. of Elec. uip. Fab. of Amm. Fireworks, Explosives & Rel. Fab. & Rpr. of Furniture Fab. & Rpr. of Wood Products Large Hsld. Appl. & Con. & Ind. Equip. Excavating, Grating & Rel. Asphalt Paving Misc. Structural Work Truck Drivers, Heavy	1 14 2 3 1 1 50 120 5 6 20 5 370 6 3 2 2 3 30 50 750 34 32 115 4 2 3 4	4.05 3.14 4.05 4.05 3.50 1.75 2.02 2.59 2.74 2.44 2.06 3.36 2.80 2.44 2.81 2.50 2.35 2.25 2.29 2.29 1.92 1.81 2.12 2.35 1.93 2.78 2.78
	Packaging Material Moving & Storing Packaging & Material Handling	8 108 26	1.86 2.72 2.18
	Boring, Drilling, Cutting & Rel. Loading & Conveying Extraction of Minerals Photoengraving	2 1 2 1	2.50 2.25 2.59 2.50
Henry	Electrical Engineering Industrial Engineering Salesman, Chemical & Drug Preparations	1 2 2	5.16 5.31 2.75



COUNTY	OCCUPATION	NUMBER OF VACANCIES	WAGE
Henry	Plant Farming	1	2.00
(cont.)	Processing, Chem. & Rel.	1	2.00
	Metal Machining	10	1.80
	Corrugating Work	1	1.60
	Metal Unit Assembly & Adjusting	11	1.80
	Fab. & Rpr. of Instru. to Meas. Phys. Char.	9	2.03
	Fab. & Rpr. of Elec. Components	30	1.79
	Painters, Spray	1	1.80
	Sewing Machine Oprs., Nongarment	25	1.60
•	Tinsmiths, Coppersmiths & Sheet Metal	75	1.80
	Arc Welders	4	1.80
	Combination Arc & Gas Welders	15	1.80
	Materials Moving & Storing	3	1.80
	Hand Compositors, Typesetters & Rel.	1	2.20
Lee	Mechanical Engineering	1	dig ma
	Chemistry	1	4.69
	Mathematics & Physical Sciences	2	
	Writers & Editors, Publications	1	3.00
	Typists	1	1.81
	Automatic: Data Processing Equip. Oprs.	2	2.17
	Pouring & Casting	2	2.30
	Cre Refining & Foundry Work	10	2.39
	Processing, Food & Rel.	181	1.67
	Processing, Chem. & Rel.	44	2.62
	Machinists & Rel.	1	3.45
	Toolmakers & Rel.	1	
	Metal Machining	106	3.10
	Metal Forming	2	
	Corrugating Work	50	2.00
	Printing Press Work	1	3.00
	Carpenters & Rel.	33	2.11
	Concrete Mixing Truck Drivers	5	2.70
	Packaging	40	2.00
Louisa	Photoengraving	1	2.70

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620 626 638 639 641	Motorized Vehicle & Eng. Equip. Repair Metalworking Machinery Repair Misc. Machine Installation & Repair Mechanics & Machinery Repairmen Folding, Creasing, Scolding & Gluing Corrugating work	30			22	99327	2			9	4		2004	Amerika e et e e e e e e e e e e e e e e e e e	And the state of t		4			10 6 59 34 1 1
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